

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/080,587	02/25/2002	Masahiro Aoki	ASAM.0043	8706
38327	7590 11/15/2006	•	EXAMINER	
REED SMI		SEDIGHIAN, REZA		
3110 FAIR V	'IEW PARK DRIVE, S	UITE 1400		
FALLS CHU	JRCH, VA 22042	ART UNIT	PAPER NUMBER	
			2613	
			DATE MALLED, LIVISMON	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
Office Action Summary		10/080,587	AOKI, MASAHIRO	AOKI, MASAHIRO	
		Examiner	Art Unit		
		M. R. Sedighian	2613		
Period fo	The MAILING DATE of this communication a		with the correspondence add	iress	
A SHOWHIC - External after - If NO - Failu Any (ORTENED STATUTORY PERIOD FOR REP CHEVER IS LONGER, FROM THE MAILING insions of time may be available under the provisions of 37 CFR of SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mail and patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.136(a). In no event, however, may d will apply and will expire SIX (6) Moute, cause the application to become	IICATION. a reply be timely filed ONTHS from the mailing date of this cor ABANDONED (35 U.S.C. § 133).		
Status		•			
2a) <u></u>	Responsive to communication(s) filed on <u>25</u> This action is FINAL . 2b) The Since this application is in condition for allow closed in accordance with the practice under	is action is non-final. ance except for formal ma	·	merits is	
Dispositi	on of Claims				
5)□ 6)□ 7)□ 8)⊠	Claim(s) 1-17 is/are pending in the application 4a) Of the above claim(s) is/are withdred claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) 1-17 are subject to restriction and/or con Papers	awn from consideration.			
9)□	The specification is objected to by the Examir	ner.			
10)□	The drawing(s) filed on is/are: a) accepted any accepted any not request that any objection to the Replacement drawing sheet(s) including the correct the oath or declaration is objected to by the I	ccepted or b) objected to be drawing(s) be held in abey action is required if the drawir	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFI	` '	
Priority u	ınder 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
2) Notic Notic Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	Paper No	v Summary (PTO-413) b(s)/Mail Date f Informal Patent Application 		

Election/Restriction

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-5, drawn to an optical communication apparatus that is comprised of a light source, an optical intensity modulator, and an electronic device for controlling the optical modulator, classified in class 398, subclass 186.
 - II. Claims 6-17, drawn to an optical communication apparatus that is comprised of an optical device and an electronic device for controlling the optical device, which are arranged on a single semiconductor substrate and which are electrically connected by a wiring provided on the substrate, classified in class 372, subclass 50.1.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are unrelated because invention I is related to an optical communication apparatus that is comprised of a light source, an optical intensity modulator, and an electronic device for controlling the optical intensity modulator. Invention II is related to an optical communication apparatus that is comprised of an optical device and an electronic device for controlling the optical device, which are arranged on a single semiconductor substrate and which are electrically connected by a wiring provided on the substrate, and wherein the optical device has an active layer including at least one selected from a group consisting of a GaInNAs quantum well, a GaInNAsSb quantum well, a GaAnSb quantum well and an InGaAs quantum dot, and the

Art Unit: 2613

electronic device has an active layer formed from at least one of the following combinations: InGaAs/InAlAs, InGaAlAs/InAlAs, or InGaAs/InP. The inventions I and II are different because invention II does not have an electronic device for controlling an optical intensity modulator, wherein the optical modulator modulates the intensity of an output light from a semiconductor laser that generates light signals in a wavelength range not smaller than 1.15 micrometers and not greater than 1.62 micrometers.

- 2. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 3. Because these inventions are distinct for the reasons given above and the search required for each group is not required for the other group, restriction for examination purposes as indicated is proper.
- 4. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to M. R. Sedighian whose telephone number is (571) 272-3034. The examiner can normally be reached on M-F (from 9 AM to 5 PM).

Application/Control Number: 10/080,587

Art Unit: 2613

Page 4

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Chan can be reached on (571) 272-3022. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

M. R. SEDIGHIAN PRIMARY EXAMINER